

## Page 1

Amount of rotation						
Value starts at F and rotates to:	X					

## Page 2

The hands of a clock	C
Playing a record	
Turning on the cold tap	
Drilling a hole in wood	
Traffic at a roundabout	
Taking the cap off toothpaste	
Steering a car to the left	
Stirring porridge	
Bath water down the plug hole	

## Page 3

Which amount of rotation would take:	
Bob to the bottom?	
Dick to the top?	
Bob to the top?	
Dick to the bottom?	
Bob directly below Dick?	
Dick directly below Bob?	
Bob and Dick to the same level? (Two answers!)	

## Page 4

Message	uncoded	WHAT TIME IS THE LANDING TONIGHT
	coded	F Y
Answer	coded	Y L O M L C Y K R B P H M K B H Y V Z Y N V T H
	uncoded	H
Your own message	coded	

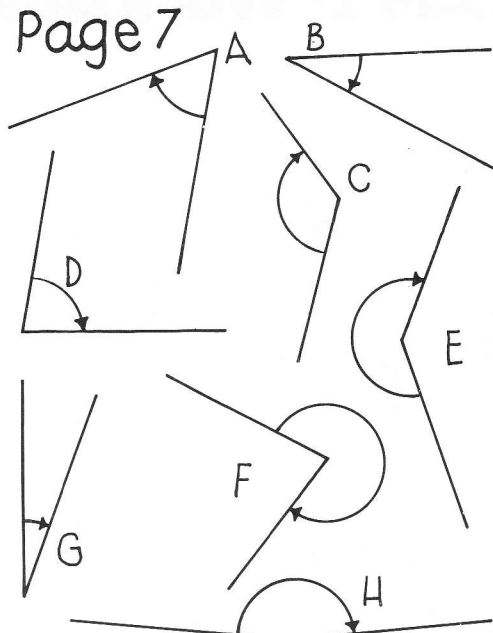
## Page 5

Amount of rotation:						
Time taken by:	hour hand	2 hours				
	minute hand	10 minutes				
	second hand					

## Page 6 Number of revolutions

from	to	minute hand	second hand
2.00	4.00	2	120
6.30	9.30		
8.20		5	300
3.00	5.30		
	9.45	$1\frac{1}{2}$	
10.10	10.25		
1.00		$1\frac{3}{4}$	

## Page 7



smallest first

G	20

biggest last

## Page 8

Measure these rotations in degrees.

Closing lid of box	
Closing pliers	
Movement of seesaw	
Closing door	
Folding stepladder	
Speedo needle from 0 to 70	
Turning switch to high	
Falling tree	

## Page 10

Estimate these rotations in degrees.

Opening coffee jar	
Opening sardine tin	
Switching on light	
Using bicycle brake	
Dialling 9	
Using corkscrew	
Turning door handle	
Turning on tap	

## Page 9

Starting time	9.05	2.21	7.43	3.59	
Final time	9.27	2.56	8.32		7.10
Rotation of minute hand					
Time taken	22 mins			16 mins	
	= 15 + 5 + 2 90° + 30° + 12°				
Angle of rotation	132°				